

JFW

## CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:

Date: June 22, 2004 Name: Joseph W. Fierlage

Signature: 

BRINKS  
HOFER  
GILSON  
& LIONE

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: Mark Quadling et al.

Appln. No.: 10/804,694

Filed: March 19, 2004

For: LASER DIGITIZER SYSTEM FOR DENTAL APPLICATIONS

Attorney Docket No: 12075/37

Examiner: TBA

Art Unit: 3732

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

## TRANSMITTAL

Sir: Attached is/are:

- ☒ Information Disclosure Statement, PTO 1449 listing references A1-A138 and one copy each of cited references A134-A138.
- ☒ Return Receipt Postcard

## Fee calculation:

- ☒ No additional fee is required.
- ☐ Small Entity.
- ☐ An extension fee in an amount of \$\_\_\_\_\_ for a \_\_\_\_\_-month extension of time under 37 C.F.R. § 1.136(a).
- ☐ A petition or processing fee in an amount of \$\_\_\_\_\_ under 37 C.F.R. § 1.17(\_\_\_\_\_).
- ☐ An additional filing fee has been calculated as shown below:

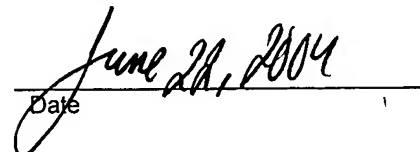
					Small Entity			Not a Small Entity	
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra	Rate	Add'l Fee	or	Rate	Add'l Fee
Total		Minus			x \$9=			x \$18=	
Indep.		Minus			x 43=			x \$86=	
First Presentation of Multiple Dep. Claim					+\$145=			+\$290=	
					Total	\$		Total	\$


## Fee payment:

- ☐ A check in the amount of \$\_\_\_\_\_ is enclosed.
- ☐ Please charge Deposit Account No. 23-1925 in the amount of \$\_\_\_\_\_. A copy of this Transmittal is enclosed for this purpose.
- ☐ Payment by credit card in the amount of \$\_\_\_\_\_ (Form PTO-2038 is attached).
- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925.

Respectfully submitted,

Date

  
June 22, 2004

  
Joseph W. Fierlage (Reg. No. 52,897)  
Agent for Applicants  
Customer No.: 00757

BRINKS HOFER GILSON &amp; LIONE

NBC Tower – Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL 60611-5599



**CERTIFICATE OF MAILING**

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June 22, 2004

Date of Deposit

Joseph W. Fierlage, Reg. No. 52,879

Name of Applicant, Assignee or  
Registered Representative

Signature

June 22, 2004

Date of Signature

Our Case No.: 12075/37

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Mark Quadling et al.

Serial No.: 10/804,694

Filing Date: March 19, 2004

For: LASER DIGITIZER SYSTEM FOR  
DENTAL APPLICATIONS

Examiner: TBA

Group Art Unit No.: 3732

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed below and on the attached Form PTO-1449 be considered by the Examiner and made of record.

Pursuant to 37 CFR 1.98 (a) (2) (i), effective for applications filed after June 30, 2003, Information Disclosure Statements may be filed without copies of U.S. patents and U.S. published applications. Such documents are therefore are not being submitted herewith. Applicants are, however, enclosing copies of the one foreign patent document (A134) and four Other Art Non-Patent Documents (A135-A138).

The references now cited are the following:

### U.S. PATENT DOCUMENTS

<b>DOCUMENT NUMBER</b> <small>Number-Kind Code (if known)</small>	<b>DATE</b>	<b>NAME</b>
4,411,626	10/25/1983	Becker et al.
4,478,580	10/23/1984	Barrut
4,575,805	03/11/1986	Moermann et al.
4,611,288	09/09/1986	Duret et al.
4,615,678	10/07/1986	Moermann et al.
4,663,720	05/05/1987	Duret et al.
4,742,464	05/03/1988	Duret et al.
4,752,964	06/21/1988	Okada et al.
4,766,704	08/30/1988	Brandestini et al.
4,798,534	07/17/1989	Breads
4,816,920	03/28/1989	Paulsen
4,856,991	08/15/1989	Breads et al.
4,935,635	06/19/1990	O'Harra
4,936,862	06/26/1990	Walker et al.
4,952,149	08/18/1990	Duret et al.
4,964,770	10/23/1990	Steinbichler et al.
4,970,032	11/13/1990	Rotsaert
5,027,281	06/25/1991	Rekow et al.
5,035,613	07/30/1991	Breads et al.
5,055,039	10/08/1991	Abbatte et al.
5,059,118	10/22/1991	Breads et al.
5,092,022	03/03/1992	Duret
5,106,303	04/21/1992	Oden et al.
5,139,419	08/18/1992	Andreiko et al.
5,151,044	09/29/1992	Rotsaert
5,186,623	02/16/1993	Breads et al.
5,224,049	06/29/1998	Mushabac
5,257,184	10/26/1993	Mushabac
5,266,030	11/30/1993	Van Der Zel
5,273,429	12/28/1993	Rekow et al.
5,338,198	08/16/1994	Wu et al.
5,340,309	08/23/1994	Robertson

<b>DOCUMENT NUMBER</b> Number-Kind Code (if known)	<b>DATE</b>	<b>NAME</b>
5,342,202	08/30/1994	Deshayes
5,342,696	08/30/1994	Eidenbenz et al.
5,347,454	09/13/1994	Mushabac
5,368,478	11/29/1994	Andreiko et al.
5,372,502	12/13/1994	Massen et al.
5,378,154	01/03/1995	Van Der Zel
5,382,164	01/17/1995	Stern
5,383,752	01/24/1995	Rheinberger et al.
5,386,292	01/31/1995	Massen et al.
5,395,238	03/07/1995	Andreiko et al.
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5,691,905	11/25/1997	Dehoff et al.
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5,788,498	08/04/1998	Wohlwind
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<b>DOCUMENT NUMBER</b> Number-Kind Code (if known)	<b>DATE</b>	<b>NAME</b>
6,068,482	05/30/2000	Snow
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6,322,359 B1	11/27/2001	Jordan et al.
6,334,773 B1	01/01/2002	Ahlen et al.
6,350,120 B1	02/26/2002	Sachdeva et al.
6,359,680 B1	03/19/2002	Rubbert
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6,413,084 B1	07/02/2002	Rubbert et al.
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2002/0143506 A1	10/03/2002	D'Aligny et al.
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6,506,054 B2	01/14/2003	Shoher et al.
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6,514,074 B1	02/04/2003	Chishti et al.
6,532,299 B1	03/11/2003	Sachdeva et al.
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6,554,613 B1	04/29/2003	Sachdeva et al.
6,568,936 B2	05/27/2003	MacDougald et al.

## FOREIGN PATENT DOCUMENT

DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY
EP 0 600 800 A1	6/08/1994	Europe

## OTHER ART – NON PATENT DOCUMENTS


Baumgartner, A., "Polarization-Sensitive Optical Coherence Tomography of Dental Structures", <i>Caries Res.</i> , Vol. 34, 2000, pp. 59-69.
Otis, Lind et al., "Identification of Occlusal Sealants Using Optical Coherence Tomography", <i>J. Clin. Den.</i> , Vol. XIV, No. 1, 2003, pp. 7-10.
Otis, Linda et al., "OPTICAL COHERENCE TOMOGRAPHY: A NEW IMAGING TECHNOLOGY FOR DENTISTRY", <i>JADA</i> , Vol. 131, 2000, pp. 511-514.
International Search Report for corresponding PCT application No. PCT/US03/41701. dated 6/04/2004

In accordance with 37 C.F.R. § 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

This Information Disclosure Statement is being filed prior to the receipt of the first Official Action reflecting an examination on the merits and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with filing of this Information Disclosure Statement. However, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is hereby authorized to deduct said fees from Brinks Hofer Gilson & Lione Deposit Account No. 23-1925.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



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Joseph W. Flerlage  
Registration No. 52,897  
Attorney for Applicants

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Chicago, IL 60610  
Tel. (312) 321-4200  
Fax (312-321-4299



FORM PTO-1449	SERIAL NO. 10/804,694	CASE NO. 12075/37
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>	FILING DATE March 19, 2004	GROUP ART UNIT 3732
(use several sheets if necessary)		APPLICANT(S): Mark Quadling et al.

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	4,411,626	10/25/1983	Becker et al.		
	A2	4,478,580	10/23/1984	Barrut		
	A3	4,575,805	03/11/1986	Moermann et al.		
	A4	4,611,288	09/09/1986	Duret et al.		
	A5	4,615,678	10/07/1986	Moermann et al.		
	A6	4,663,720	05/05/1987	Duret et al.		
	A7	4,742,464	05/03/1988	Duret et al.		
	A8	4,752,964	06/21/1988	Okada et al.		
	A9	4,766,704	08/30/1988	Brandestini et al.		
	A10	4,798,534	07/17/1989	Breads		
	A11	4,816,920	03/28/1989	Paulsen		
	A12	4,856,991	08/15/1989	Breads et al.		
	A13	4,935,635	06/19/1990	O'Harra		
	A14	4,936,862	06/26/1990	Walker et al.		
	A15	4,952,149	08/18/1990	Duret et al.		
	A16	4,964,770	10/23/1990	Steinbichler et al.		
	A17	4,970,032	11/13/1990	Rotsaert		
	A18	5,027,281	06/25/1991	Rekow et al.		
	A19	5,035,613	07/30/1991	Breads et al.		
	A20	5,055,039	10/08/1991	Abbatte et al.		
	A21	5,059,118	10/22/1991	Breads et al.		
	A22	5,092,022	03/03/1992	Duret		
	A23	5,106,303	04/21/1992	Oden et al.		
	A24	5,139,419	08/18/1992	Andreiko et al.		
	A25	5,151,044	09/29/1992	Rotsaert		
	A26	5,186,623	02/16/1993	Breads et al.		
	A27	5,224,049	06/29/1998	Mushabac		
	A28	5,257,184	10/26/1993	Mushabac		
	A29	5,266,030	11/30/1993	Van Der Zel		
	A30	5,273,429	12/28/1993	Rekow et al.		
	A31	5,338,198	08/16/1994	Wu et al.		
	A32	5,340,309	08/23/1994	Robertson		
	A33	5,342,202	08/30/1994	Deshayes		
	A34	5,342,696	08/30/1994	Eidenbenz et al.		
	A35	5,347,454	09/13/1994	Mushabac		
	A36	5,368,478	11/29/1994	Andreiko et al.		

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449	SERIAL NO. 10/804,694	CASE NO. 12075/37
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE March 19, 2004	GROUP ART UNIT 3732
(use several sheets if necessary)		APPLICANT(S): Mark Quadling et al.

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

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	A37	5,372,502	12/13/1994	Massen et al.		
	A38	5,378,154	01/03/1995	Van Der Zel		
	A39	5,382,164	01/17/1995	Stern		
	A40	5,383,752	01/24/1995	Rheinberger et al.		
	A41	5,386,292	01/31/1995	Massen et al.		
	A42	5,395,238	03/07/1995	Andreiko et al.		
	A43	5,417,572	05/23/1995	Kawai et al.		
	A44	5,431,562	07/11/1995	Andreiko et al.		
	A45	5,440,393	08/08/1995	Wenz		
	A46	5,440,496	08/08/1995	Andersson et al.		
	A47	5,447,432	09/05/1995	Andreiko et al.		
	A48	5,448,472	09/05/1995	Mushabac		
	A49	5,452,219	09/19/1995	Dehoff et al.		
	A50	5,454,717	10/03/1995	Andreiko et al.		
	A51	5,474,448	12/12/1995	Andreiko et al.		
	A52	Re 35,169	03/05/1996	Lemchen et al.		
	A53	5,497,336	03/05/1996	Andersson et al.		
	A54	5,533,895	07/09/1996	Andreiko et al.		
	A55	5,545,039	08/13/1996	Mushabac		
	A56	5,549,476	08/27/1996	Stern		
	A57	5,562,448	10/08/1996	Mushabac		
	A58	5,569,578	10/29/1996	Mushabac		
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	A63	5,691,905	11/25/1997	Dehoff et al.		
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	A65	Re. 35,816	06/02/1998	Schulz		
	A66	5,788,498	08/04/1998	Wohlwind		
	A67	5,800,174	09/01/1998	Andersson		
	A68	5,812,269	09/22/1998	Svetkoff et al.		
	A69	5,813,859	09/29/1998	Hajjar et al.		
	A70	5,818,587	10/06/1998	Devaraj et al.		
	A71	5,823,778	10/20/1998	Schmitt et al.		
	A72	5,851,115	12/22/1998	Carlsson et al.		
	A73	5,857,853	01/12/1999	Van Nifterick et al.		
	A74	5,870,220	02/09/1999	Migdal et al.		
	A75	5,879,158	03/09/1999	Doyle et al.		

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	A76	5,880,962	03/09/1999	Andersson et al.		
	A77	5,882,192	03/16/1999	Bergersen		
	A78	5,938,446	08/17/1999	Andersson et al.		
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	A80	6,015,289	01/18/2000	Andreiko et al.		
	A81	6,044,170	03/28/2000	Migdal et al.		
	A82	6,049,743	04/11/2000	Baba		
	A83	6,062,861	05/16/2000	Anderson		
	A84	6,068,482	05/30/2000	Snow		
	A85	6,099,314	08/08/2000	Kopelman et al.		
	A86	6,115,114	09/05/2000	Berg et al.		
	A87	6,135,774	10/24/2000	Hack et al.		
	A88	6,152,731	11/28/2000	Jordan et al.		
	A89	6,200,135 B1	03/13/2001	Hultgren		
	A90	6,205,240 B1	03/20/2001	Pietrzak et al.		
	A91	6,206,693 B1	03/27/2001	Hultgren		
	A92	6,210,162 B1	04/03/2001	Chishti et al.		
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	A95	6,227,851 B1	05/08/2001	Chishti et al.		
	A96	6,244,861 B1	06/12/2001	Andreiko et al.		
	A97	6,250,918 B1	06/26/2001	Sachdeva et al.		
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	A102	6,322,359 B1	11/27/2001	Jordan et al.		
	A103	6,334,773 B1	01/01/2002	Ahlen et al.		
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	A114	6,406,292 B1	06/18/2002	Chishti et al.		
EXAMINER			DATE CONSIDERED			

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FORM PTO-1449	SERIAL NO. 10/804,694	CASE NO. 12075/37
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>	FILING DATE March 19, 2004	GROUP ART UNIT 3732
(use several sheets if necessary)		APPLICANT(S): Mark Quadling et al.

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A115	6,409,504 B1	06/25/2002	Jones et al.		
	A116	6,413,084 B1	07/02/2002	Rubbert et al.		
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	A133	6,568,936 B2	05/27/2003	MacDougald et al.		

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
	A134	EP 0 600 800 A1	6/08/1994	Europe		Abstract
	A					

EXAMINER INITIAL	OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.	
	A135	Baumgartner, A., "Polarization-Sensitive Optical Coherence Tomography of Dental Structures", <i>Caries Res.</i> , Vol. 34, 2000, pp. 59-69.
	A136	Otis, Lind et al., "Identification of Occlusal Sealants Using Optical Coherence Tomography", <i>J. Clin. Den.</i> , Vol. XIV, No. 1, 2003, pp. 7-10.
	A137	Otis, Linda et al., "OPTICAL COHERENCE TOMOGRAPHY: A NEW IMAGING TECHNOLOGY FOR DENTISTRY", <i>JADA</i> , Vol. 131, 2000, pp. 511-514.
	A138	International Search Report for corresponding PCT application No. PCT/US03/41701, dated 6/04/2004, 4 pages.

EXAMINER	DATE CONSIDERED
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